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	U	Document ID	Issue Date	Pages	Title	Current OR
1	<input type="checkbox"/>	<input checked="" type="checkbox"/> US 6009087 A	19991228	170	Mobile communication system using various multiple access methods	370/335
2	<input type="checkbox"/>	<input checked="" type="checkbox"/> US 5995515 A	19991130	51	Communication system, base station, mobile station, and radio communication system	370/465
3	<input type="checkbox"/>	<input checked="" type="checkbox"/> US 5991279 A	19991123	26	Wireless packet data distributed communications system	370/311
4	<input type="checkbox"/>	<input checked="" type="checkbox"/> US 5987014 A	19991116	9	Multipath resistant, orthogonal code-division multiple access system	370/335
5	<input type="checkbox"/>	<input checked="" type="checkbox"/> US 5966644 A	19991012	27	Communication system, including transmitting and receiving apparatus using a multi-carrier signal	455/76
6	<input type="checkbox"/>	<input checked="" type="checkbox"/> US 5914961 A	19990622	11	Fixed wireless loop system having dual direct synthesizer	370/503

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1	370/337 ; 370/342 ; 370/344 ; 370/347 ; 375/376 ; 455/451		Uchida, Yoshinori , et al.	☒	☐	☐	☐	☐	☐	☐
2	370/347 ; 370/350		Suzuki, Mitsuhiro	☒	☐	☐	☐	☐	☐	☐
3	370/318 ; 370/320 ; 370/321 ; 370/324 ; 370/342 ; 370/347 ; 370/349 ; 370/350 ; 375/130 ; 455/13.2 ; 455/13.4 ; 455/343 ; 455/38.3		Haugli, Hans-Christian , et al.	☒	☐	☐	☐	☐	☐	☐
4	370/342 ; 375/130		Magill, David T. , et al.	☒	☐	☐	☐	☐	☐	☐
5	375/219		Suzuki, Mitsuhiro	☒	☐	☐	☐	☐	☐	☐
6	370/342 ; 375/356		Harris, Johnny M , et al.	☒	☐	☐	☐	☐	☐	☐

U	⤵	Document ID	Issue Date	Pages	Title	Current OR
7	<input type="checkbox"/>	US 5649000 A	19970715	11	Method and system for providing a different frequency handoff in a CDMA cellular telephone system	455/436
8	<input type="checkbox"/>	US 5623487 A	19970422	8	Doubly orthogonal code and frequency division multiple access communication system	370/342

Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
7 ; 370/331 ; 375/133	Lee, Dong-Wook , et al.		☒	□	□	□	□	□	□
8 ; 375/145 ; 375/146 ; 375/149	Natali, Francis D.		☒	□	□	□	□	□	□

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Document Listing

Document	Image pages	Text pages	Error pages
US 5673291 A	0	2	0
Total	0	2	0

DOCUMENT-IDENTIFIER: US 5673291 A
TITLE: Simultaneous demodulation and decoding of a digitally modulated radio signal using known symbols

DEPR:

Referring to FIG. 1, a number of coded symbols to be conveyed to a receiver are marked "U" for unknown and interleaved with a number of known symbols marked "K". The symbols are shown distributed between a number of bursts in an assumed Time Division Multiple Access (TDMA) transmission system, but this is by way of example only, and the invention can be applied equally to continuous (e.g., FDMA or CDMA) as well as burst transmissions.

DEPR:

The I,Q modulation waveforms produced by any of the above methods are applied to a quadrature modulator composed of 90 degree phase splitter 27, balanced modulators 25, 26, combiner 29 and filter 30. This circuit applies the I modulation waveform multiplicatively to a cosine carrier wave at a frequency determined by frequency synthesizer 28 and the Q waveform to a sine carrier at the same frequency. Combiner 29 forms $I \cos(\omega t) + Q \sin(\omega t)$ which is the desired modulated waveform, but at an intermediate frequency ω . This is then translated up to the desired transmit frequency using heterodyne mixing in upconverter 31 with a local oscillator signal from synthesizer 28. The local oscillator frequency can be varied by a controller (not

different blocks and also smoothly controls the power amplifier turn-on and turn-off by means of up- and down-ramping of the power level so as to avoid spectral splatter into adjacent channels.

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Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Err ors
1	BRS	L1	frequency adj1 synthesizer	USPAT	2000/06/05 13:49			0
2	BRS	L2	(Variable adj1 FREQUENCY ADJ1 SYNTHESIZER)	USPAT	2000/06/05 13:42			0
3	BRS	L3	237 1 and cdma	USPAT	2000/06/05 15:30			0
4	BRS	L4	upconver\$ or (up adj1 conver\$)	USPAT	2000/06/05 15:32		Truncation Overflow. Return string from Server is: 5`0`UPC	1
5	BRS	L5	frequency with (select\$ or predetermin\$)	USPAT	2000/06/05 15:36		Truncation Overflow. Return string from Server is: 5`416984`	1
6	BRS	L6	1465 4 and 5	USPAT	2000/06/05 15:36			0
7	BRS	L7	173 6 and cdma	USPAT	2000/06/05 16:24			0
8	IS&R	L8	("5375140").PN.	USPAT	2000/06/05 16:27			0
9	IS&R	L9	(("5103459") or ("5204876") or ("5222100") or ("5235614") or ("5299229") or ("5383219")).PN.	USPAT	2000/06/05 16:31			0
10	IS&R	L10	("5341396").PN.	USPAT	2000/06/05 16:31			0